

synchronizing the clock component of the selected facility device further comprises: synchronizing the clock component of the selected facility device with the second clock component of a selected master clock that is associated with the selected facility device.

19. The method of claim **13**, further comprising: configuring at least one selected facility device to, upon detecting a deviance of the clock component of the selected facility device and a second clock component of at least one other facility device, communicate with the grandmaster clock to resynchronize the clock component of the selected facility device with the grandmaster clock.

20. A sensor device of a particle detector facility, comprising:

- a sensor that detects instances of a particle event arising within the particle detector facility;

- a local clock; and

- an event recorder that:

- identifies the remote clock of the remote device of the particle facility as a grandmaster clock;

- synchronizes the clock component with a grandmaster clock of the particle facility; and

- receives, from the sensor, a notification of a detection of an instance of the particle event;

- retrieves, from the local clock, an absolute event timestamp that is independent of event times of other events; and

- records the event with the absolute event timestamp retrieved from the local clock.

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